

Total Force
Human Capital Strategy
Planning Series



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Millington, TN
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Building Shore Human Capital Objects Strategy Meeting

Content, Container, Context

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Agenda

- SkillObjects and Human Capital Objects Definition
- Creating SkillObjects and HCO's
- Total Force Effort Essential to Sea Warrior Success
- Human Capital Content Data Formation Update
- Shore Jobs and Industry Jobs are Similar
- The Content, Container, Context Grand Challenge



Lexicon and Process Alignment

SkillObjects and HCO's Enable Planners to Meet TF-HCS Objectives

Success Statement:

Central to Total Force Human Capital Strategy and Sea Warrior (MPT&E) success is a shift from a *“task/equipment-centric”* to a *“SkillObject/HCO/Competency”* operation environment.

Problem Statement:

The emerging warfighting/peacekeeping environment demands descriptors of work, worker and workplace to be standardized and usable across the all workforce development functions (*manpower, training, education, recruiting, NTA capability, etc.*)

The **“AS-IS”** workforce development environment is transitioning to the **“TO-BE”** while the tail (descriptors and framework) are in a blended Rate/Rating/NEC and Job Family, Job, Critical Work Function, SkillObject and work context format.

The blend of AS-IS and TO-BE workforce descriptors presents significant challenges to the workforce development planners.

Solution Strategy:

Provide workforce practioners a clear & simple process to align work requirements to positions.

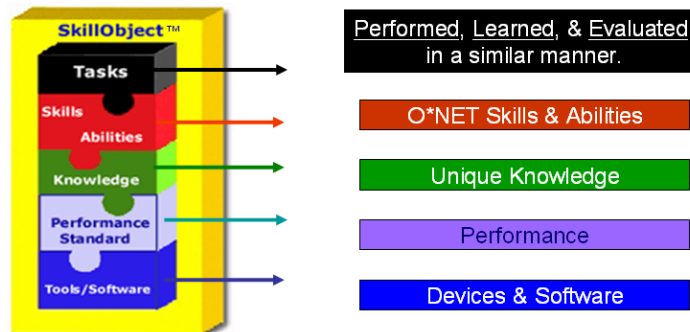
Strategy should assure all activities are forward compatible realizing there will be multiple spirals required to meet desired end-state.



Definitions

SkillObject and Work Elements:

1. SkillObject: An observable occupational skill containing unique knowledge, Skills, Abilities, Tools tasks and resources (KSATTR) at the JOB level and Context work elements (context identifier, specialty KSA's, sub-tasks, procedures, etc.) where applicable.
2. SkillObjects are the **smallest** unit of analysis to define work.
3. SkillObject KSA's are **enablers** and not **measures** of performance.
4. Context work elements: position specific characteristics that delimit the SkillObject functionality.





Definitions

Human Capital Objects:

Human Capital Object (HCO) - A Human Capital Object (HCO) is a multifaceted collection of work, worker and workplace data content requirements in a specific environment or set of environments, that will be used to support Navy business processes.

Human Capital Object (Individual) (HCO(I)) - An HCO(I) is the individual's existing abilities and attributes to do work.

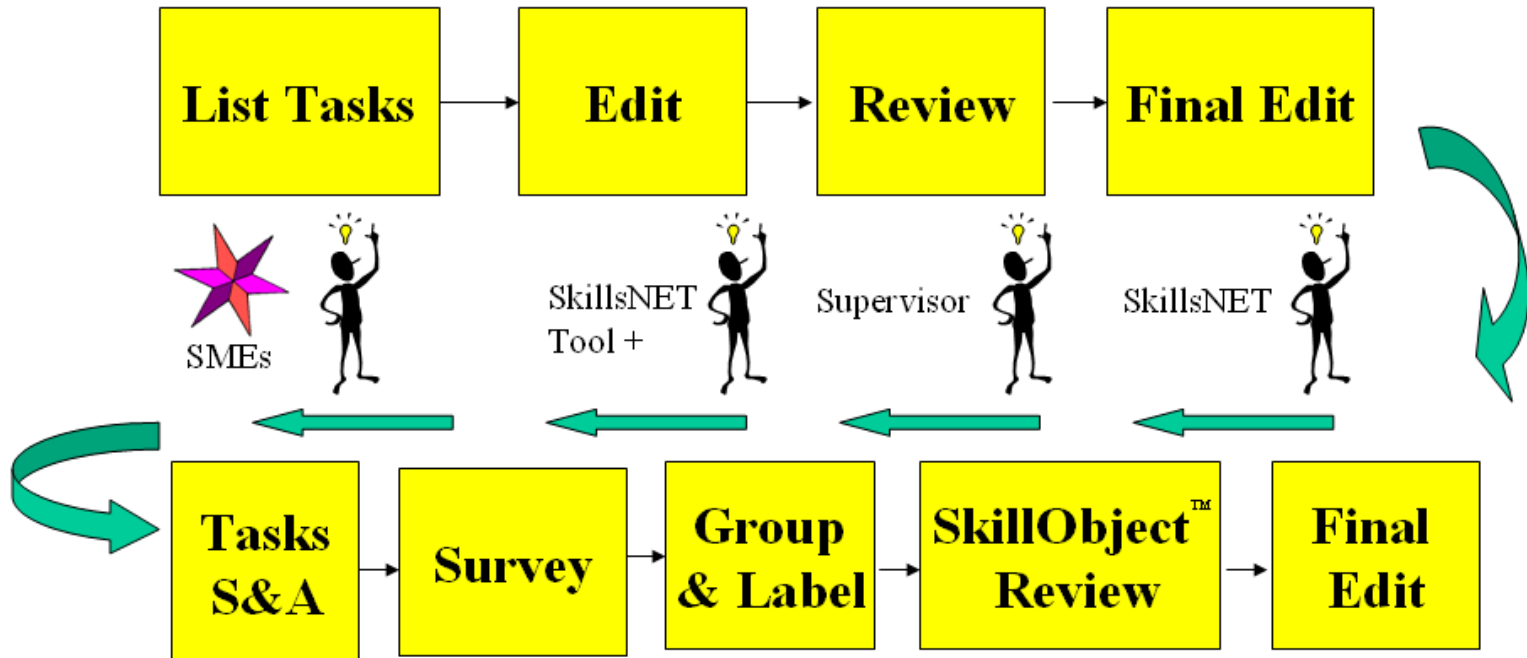
Human Capital Object (Requirement) (HCO(R)) - An HCO(R) is the set of work and work place requirements assigned to a position.



Content Creation

SkillObjects:

Defining Work and KSATs





SkillObject and ILE End-to-End IA Use Case

This sample use case is based on the Job Family “**Radar Operations**”, job title “**Air Traffic Controller**”, and position title “**Carrier Air Traffic Control Center (CATCC) Approach Controller**” SkillObject data with “**SPN-43 Approach Radar**” as Context.

Based on the job analysis, there are 43 SkillObjects™ in the Air Traffic Controller job. They are listed below. Of the 43 SkillObjects, 28 have relevance to the position of Carrier Air Traffic Control Center (CATCC) Approach Controller.

Air Traffic Control Supervision	Program Management
Air Traffic Control Supervision - Sea	Program Management - Sea
Air Traffic Control Supervision - Shore	Program Management - Shore
Airspace Coordination Procedures	Publication Management
Clearance Procedures	Radar Procedures
Emergency Control Procedures	Radar Procedures-Sea
Emergency Procedures	Radar Procedures-Shore
Equipment Management	Routine Administration
Equipment Operations	Routine Transmissions
Flight Planning Supervision	Safety Alerts and Advisory Procedures
General Procedures	Separation Procedures
General Procedures - Sea	Special Handling Procedures
General Procedures - Shore	Special Use Airspace
General Procedures - Tower	Status Board Operations
General Procedures Flight Planning - Shore	Tactical (Expeditionary) Procedures
Inter-Facility Coordination Procedures	Taxi and Ground Movement Procedures
Intra-Facility Coordination Procedures	Tower Supervision
Media Management	Training
Message Handling	Wake Turbulence Tower Procedures
Non-Control Coordination Procedures	Wake Turbulence Procedures
Non-Control Tactical (Expeditionary)	Weather Reporting
Non-Radar Procedures	

Radar Procedures-Sea SkillObject will be used to illustrate job and context content.



Radar Procedures-Sea SkillObject

The job analysis yielded a total of 265 task statements for the job of Air Traffic Controller. Fifteen of the tasks were chosen from the entire list of tasks and are presented below.

1. CONDUCT AIR TRAFFIC CONTROL RADAR FINAL SURVEILLANCE APPROACHES
2. CONTROL AIRCRAFT USING PRECISION APPROACH LANDING SYSTEMS (PALS)
3. CONTROL INSTRUMENT CONTROLLED LANDING SYSTEM (ICLS) APPROACHES
4. CONTROL PRECISION APPROACH RADAR (PAR) APPROACHES
5. OPERATE AIR TRAFFIC CONTROL EQUIPMENT
6. PERFORM AIR TRAFFIC CONTROL AIRCRAFT EMERGENCY PROCEDURES
7. PERFORM APPROACH PROCEDURES
8. MAINTAIN AIR TRAFFIC CONTROL RELATED FORMS
9. MANAGE LOGS AND RECORDS
10. PROCESS POST FLIGHT OPERATIONS INFORMATION
11. ISSUE ROUTINE SHIPBOARD TRANSMISSIONS
12. OBTAIN CURRENT AIRCRAFT FUEL STATES
13. ISSUE AIR TRAFFIC CONTROL TRAFFIC ADVISORIES
14. APPLY AIR TRAFFIC CONTROL VISUAL SEPARATION PROCEDURES
15. SEPARATE AIRCRAFT VERTICALLY

The proficiency level required for each SkillObject varies by expertise level over RAJM. As an example, A SkillObject may require a proficiency of monitoring 5 planes concurrently for a J, and 10 for M. Likewise, all SkillObjects are not performed by all levels of expertise. The **performance statement** will indicate proficiency requirement and map to **performance objective(s)**.

For each question below, we are providing a specific example using the job of an “Air Traffic Controller”, in the “Radar Operations” Job Family. The specific position is that of “Carrier Air Traffic Controller Center (CATCC) Approach Controller” with a Context of a “SPN-43 Approach Radar”



SkillsNET Job (Level I) and Context (Level 2) Data Architecture.

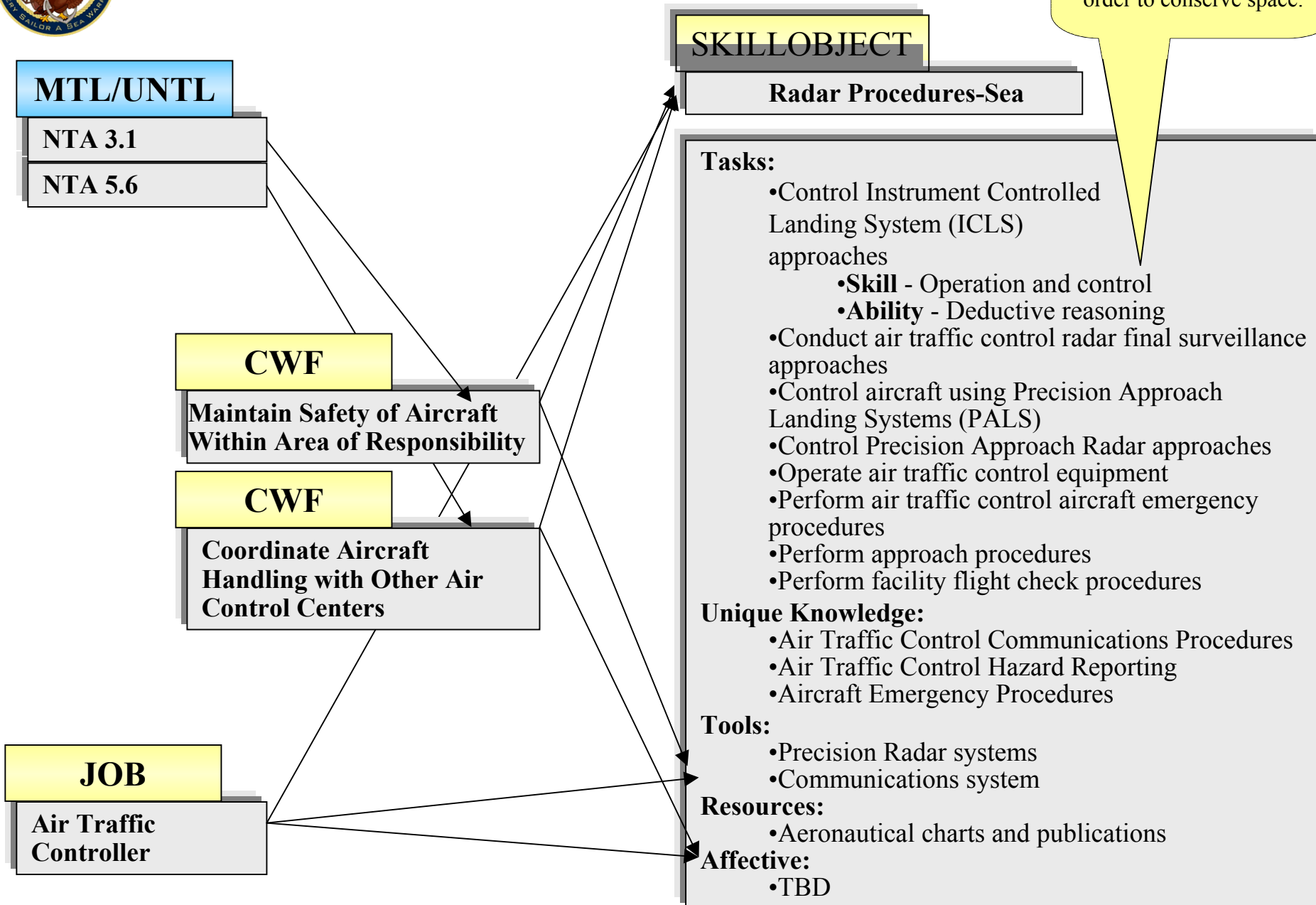
Use Case Example:

Radar Procedures-Sea SkillObject



Use Case I Example

The Primary Enabling Skill and Ability is only shown on the first task in order to conserve space.



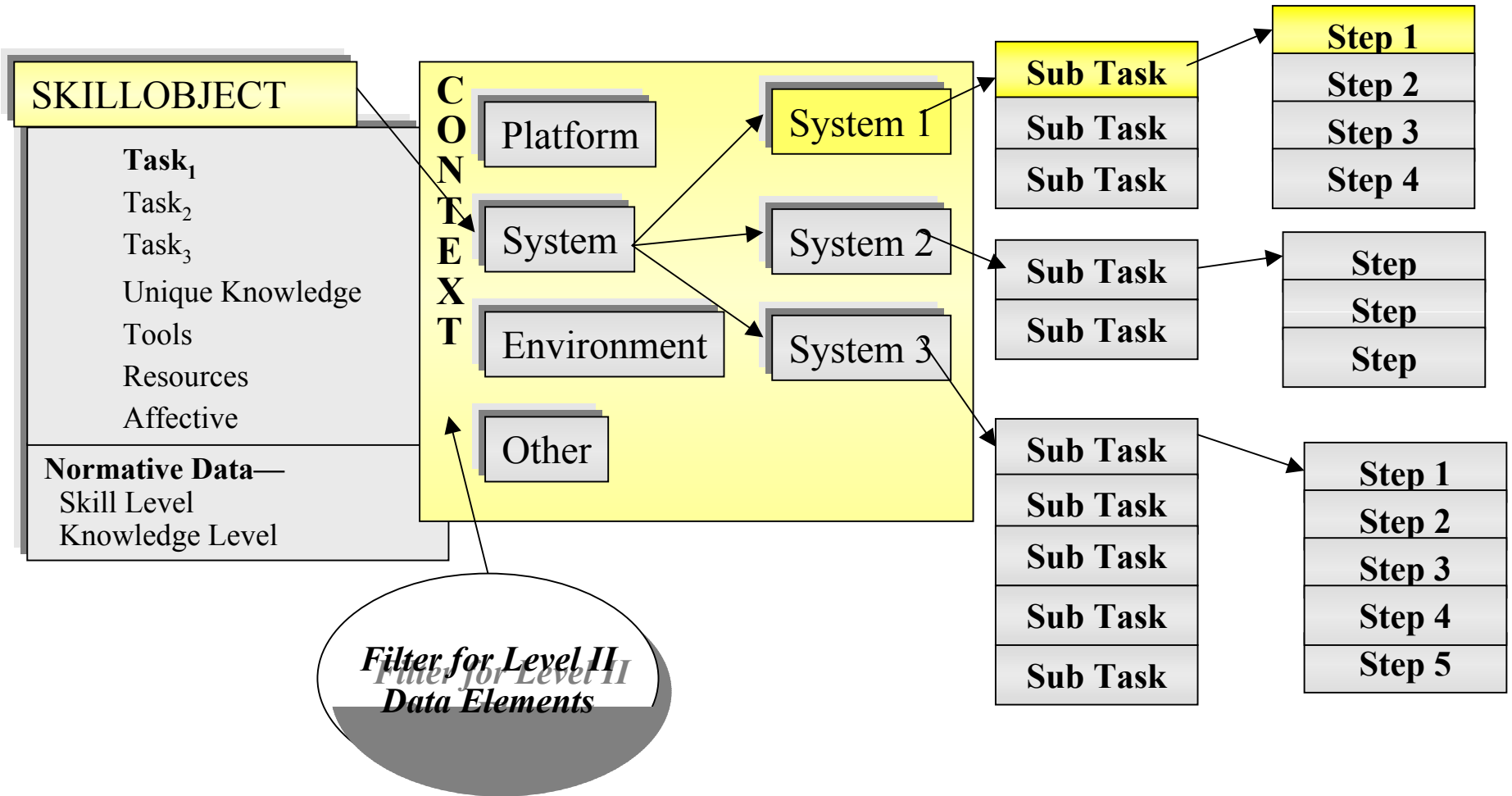


SkillsNET Level II Architecture

Job Work Elements

Context

Position Work Elements





Use Case Level II Example

- **Job Family: Radar Operations**
 - **Job: Air Traffic Controller**
 - **Position: CATCC Approach Controller**
 - **Context: SPN-43 Approach Radar**

SKILLOBJECT

Radar Procedures-Sea

- Conduct air traffic control radar final surveillance approaches
- Control aircraft using Precision Approach Landing

•Control Instrument Controlled Landing System (ICLS) approaches

- Control Precision Approach Radar (PAR) approaches
- Operate air traffic control equipment
- Perform air traffic control aircraft emergency procedures
- Perform approach procedures
- Perform facility flight check procedures

C O N T E X T

System

SPN-43
Approach
Radar

System

XXXXXX

System

XXXXXX

Sub Task

Perform air traffic control recovery operations as a final controller

Sub Task

Control aircraft in accordance with naval air training and operating procedures

Sub Task

XXXXXXXXXXXXXXXXXX

Steps

Verify approach

Verify airspace

Etc.

Steps

Step 1

Step 2

Etc.

Step 1

Step 2

Step 3

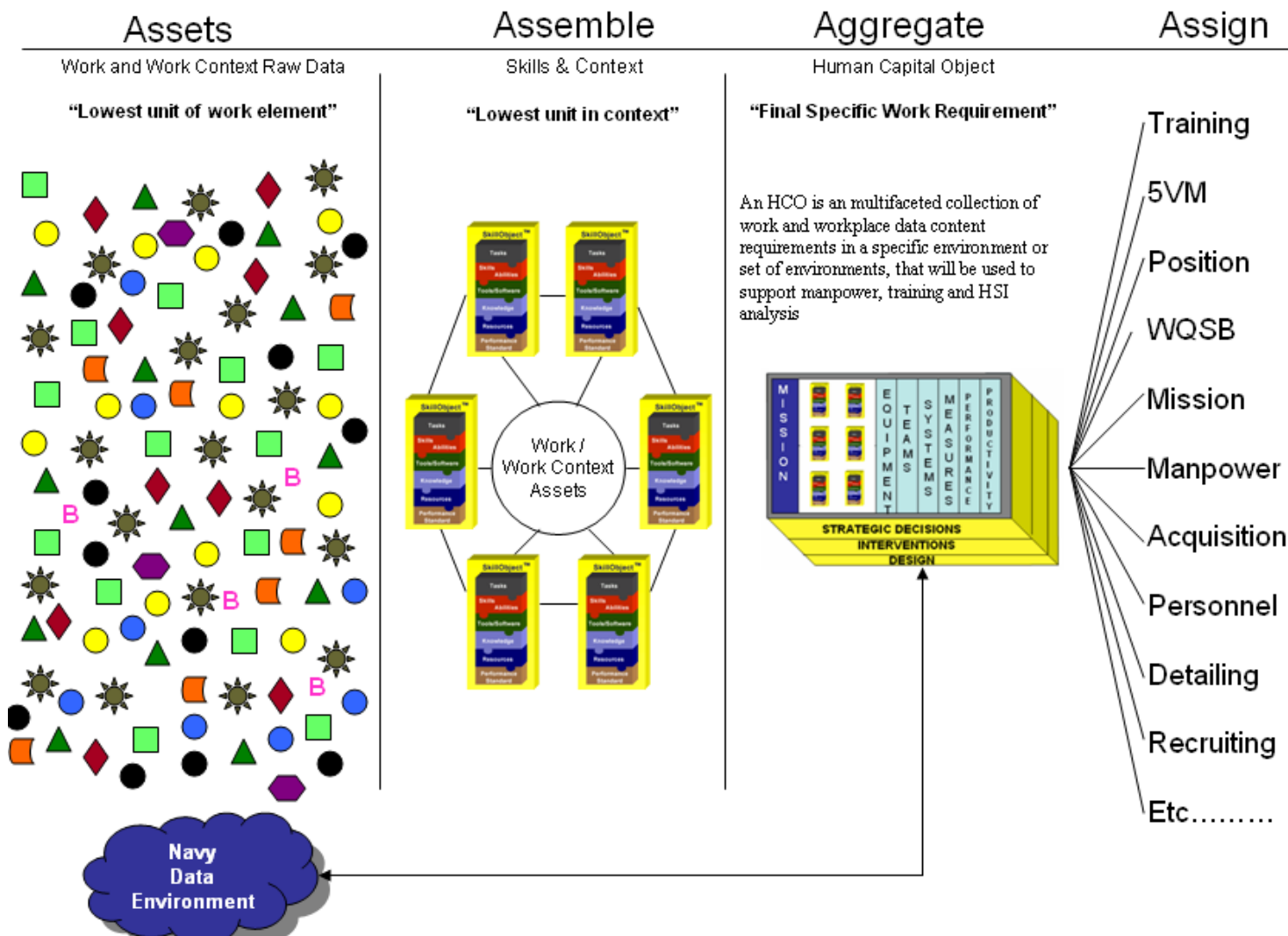
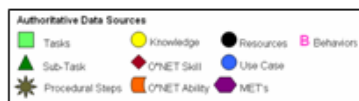
Step 4

Step 5



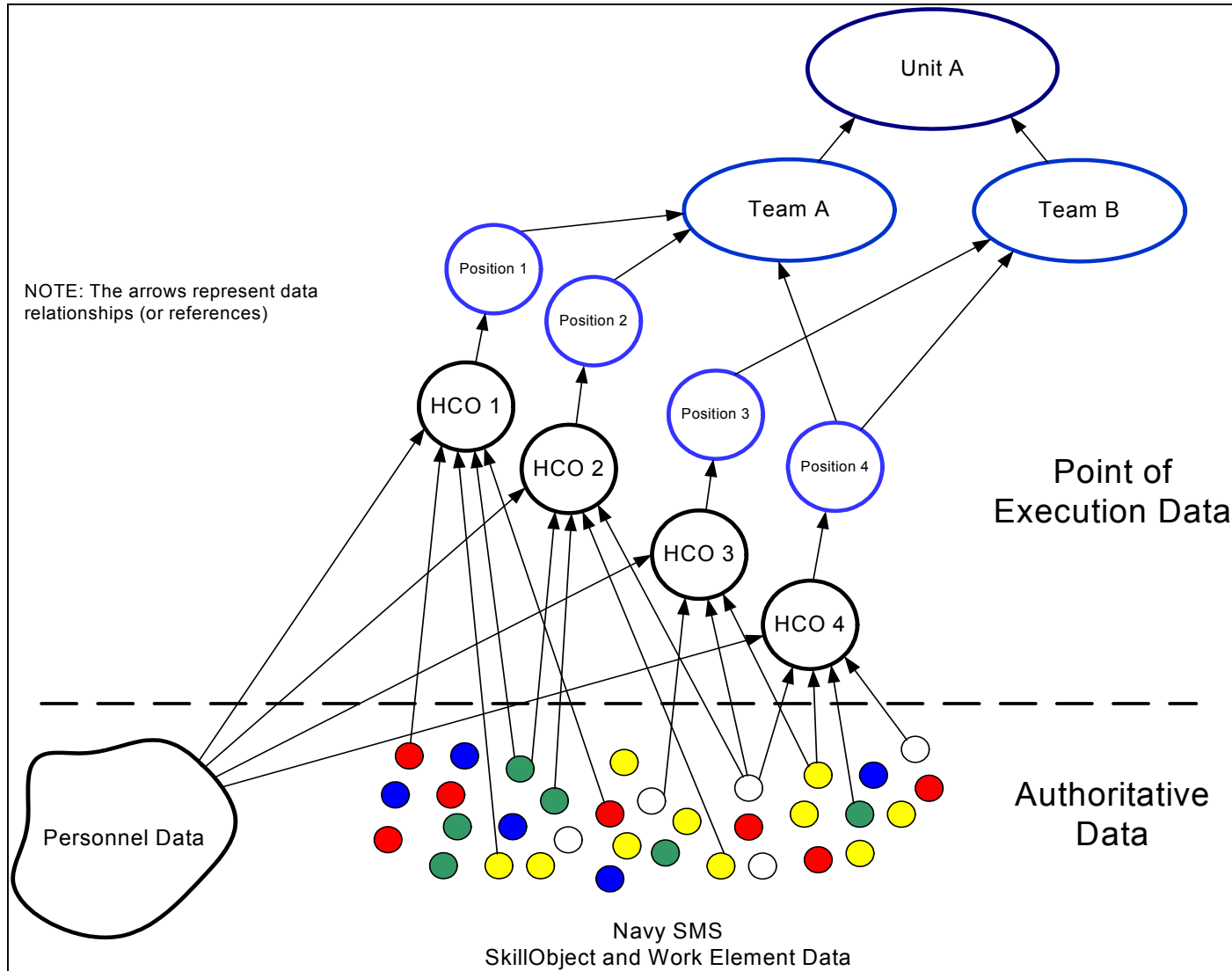
Content Creation

Human Capital Content Model





Content Creation





Total Force Effort Essential to Sea Warrior Success


- Optimize HCO capability
- Increased interoperability/portability
- Prescriptive Surge Management
- Increased Career Satisfaction



Human Capital Content Formation Update

Essential Total Force Human Capital Strategy Content Products Status Dashboard

17 August 2005

	Data Formation/Validation						
	Job Skill Objects (Level 1)	Modernization	Skill Object Context (Level 2)	HSI Integration (Level 3)	Data Standardization (L1-L2)	Competency Model	Human Capital Objects
Human Capital Focus							
Enlisted							
Fleet Jobs	●	●	●	●	●	●	●
Shore Jobs	●	●	●	●	●	●	●
Watches/Duties	●	●			●		
NEC Conversion	●	●			●		
Officer	●	●	●	●	●	●	●
Flag/SES	●	●	●	●	●	●	●
Navy Civilian	●	●	●		●	●	●
Civilian/Reserves	●	●	●		●	●	●
Contractors	●	●	●	●	●	●	●
<ul style="list-style-type: none"> ● Finished: Data populated in SMS 2.5 (August 2005) ● On Target: Project meeting goals ● Issues: Funding, or minimum support due to conflicting workload, or accelerated delivery ● Planned but not funded: Essential to TF-HCS but not aligned with funding lanes 							



Shore and Industry Jobs

Domain		Global Job Title: Administrative Support		
		Military	Civilian	Industry
Work Elements				
Classification		YN1 Administrative Supervisor	GS-0318: Secretary HPC	Administrative Supervisor
Skill/Object		Correspondence Management	Correspondence & Reports	Manage Correspondence
Core Task		Manage Command Files	Maintains Office Records	Maintains Filing Systems
Primary Knowledge		Knowledge of clerical procedures such as managing files and records	Knowledge of priorities, Duties, policies and program goals to maintain files and records	Knowledge of clerical procedures such as managing files and records
Primary Skill		Information Gathering	Plan & Organize Work	Information Gathering
Secondary Skill		Reading Comprehension	Use of English Language	Reading Comprehension
Primary Ability		Written Expression	Ability to interpret and apply rules	Written Expression
Secondary Ability		Oral Expression	Oral Communication	Oral Expression
Unique Knowledge		Administrative Procedures		Problem solving principles and history of solving similar problems.
Tools/Software		Microsoft Word	Microsoft Word	Microsoft Word
Resources		Correspondence Manual	Correspondence Manual	Customer Satisfaction Manual

Commonality = Productivity Gains



The Content, Container, Context Grand Challenge



Content defining work must be valid, trusted, and current.



HCO Container must have “just enough” information and flexibility to configure content to meet hybrid work environments.



Context is all about alignment.



Current Capability to Build HCO's

- iDAP Data Source
- HCO-Builder (Spiral 1)



Questions?